



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 106707**

**TO: Michael Pak**  
**Location: CM1/10E13/10D19**  
**Art Unit: 1646**  
**Thursday, October 30, 2003**  
  
**Case Serial Number: 09/820849**

**From: Toby Port**  
**Location: Biotech-Chem Library**  
**CM1-6A04**  
**Phone: 308-3534**  
  
**toby.port@uspto.gov**

### **Search Notes**

Dear Examiner Pak,

Here are the results of your search.  
Please feel free to contact me if you have any questions.

Toby Port

CY		241 NVA 247	
DB		248 NVAQKS 254	
RESULT 3			
AAB90776	ID	AAB90776 standard; Protein; 243 AA.	
XX	AC	AAB90776;	
XX	DT	15-JUN-2001 (first entry)	
XX	DE	Human shear stress-response protein SEQ ID NO: 52.	
KW	Human; shear stress-response protein; vascular disease;		
KW	arteriosclerosis.		
OS	Homo sapiens.		
WP1:	2000-256643-1.		
XX	12-APR-2001.		
XX	22-OCT-2000; 2000HO-JP05840.		
XX	01-OCT-1999; 99JP-5280976.		
XX	(KYOW) KYOWA HAKKO KOGYO KK.		
XX	(NOJIMA) NOJIMA H.		
PI	Nojima H., Yoshisue H., Obayashi M., Ota T., Kawabata A., Sakurada K.;		
PI	Koga I., Sekine S., Nakamura Y., Sugano S;		
DR	NP1: 2000-266308/27.		
DR	N-PSDB; AAHC2899.		
PT	DNA sequences, proteins encoded by them and antibodies against them		
PT	useful in diagnosis and treatment of vascular disease caused by		
PT	arteriosclerosis -		
XX	Claim 60; Page 365-366; 67app; Japanese.		
CC	The present invention provides the protein and coding sequences of a		
CC	number of human shear stress response proteins. These are useful in the		
CC	diagnosis, treatment and screening of vascular diseases caused by		
CC	arteriosclerosis, including heart failure, post-PICA stenosis and		
CC	hypertension.		
SQ	Sequence 243 AA;		
Query Match: 98.0%; Score 1284; DB 22; Length 243;			
Best Local Similarity 99.6%; Pred. No. 2,7e+123;			
Matches 242; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
CY	1	MSGLRGCTGVDPDELFLVFKAGSDGSGNCPFCQSLFWLWLKGVKNVTVDVTRKEE 60	
DB	:	MSGLRGCTGVDPDELFLVFKAGSDGSGNCPFCQSLFWLWLKGVKNVTVDVTRKEE 60	
CY	61	LKDLPFGTNPPLVYNKLKTDFTKIEEFLEQLAPPYPHLSPKYKESFDVGCNLFPAKF 120	
DB	61	LKDLPFGTNPPLVYNKLKTDFTKIEEFLEQLAPPYPHLSPKYKESFDVGCNLFPAKF 120	
CY	121	SAYIKNTQEKANKVPKSKLLKFFKRDLDDVLYNLPLDIDPDASBPVSRLFLDGQOLT 180	
DB	121	SAYIKNTQEKANKVPKSKLLKFFKRDLDDVLYNLPLDIDPDASBPVSRLFLDGQOLT 180	
CY	181	LADCSLLPKLNLIKAAKKYRFDPIDPFSGGWRYVLHNAYAREEFTHTCPEDKXIENTYA 240	
DB	181	LADCSLLPKLNLIKAAKKYRFDPIDPFSGGWRYVLHNAYAREEFTHTCPEDKXIENTYA 240	
CY	241	NVA 243	

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US-09-82(

10 839 64.0 686 23 AAE16790 Human transporter  
 11 829 63.3 253 19 AAW71089 Human anion channel  
 12 796.5 60.8 321 22 ABG23499 Novel human channel  
 13 744 56.8 241 21 AAY79197 Human diacylglycerol  
 14 744 56.8 241 21 AAB08074 Human diacylglycerol  
 15 737 56.3 601 21 AAY79240 Human diacylglycerol  
 16 662.5 50.6 208 22 AAB93141 Human protein sequ  
 17 655 50.0 197 24 ABG73059 Human chloride int  
 18 655 50.0 219 24 ABG73058 Human chloride int  
 19 651 49.7 205 22 AAX93570 Human polypeptide,  
 20 645 49.2 371 23 AAE22926 Human transporter  
 21 639 48.8 197 24 ABG73060 Rat chloride intra  
 22 628.5 48.0 270 22 ABG27160 Novel human diagn  
 23 599 45.7 236 24 AAE32074 Human TRIC-A prot  
 24 563 43.0 246 22 AAU10058 Chloride channel f  
 25 537.5 41.0 241 19 AAW61550 Human chloride cha  
 26 511 39.0 222 22 AAG23722 Novel human enzyme  
 27 460.5 35.2 414 22 ABG27159 Novel human diagn  
 28 403 30.8 351 22 AAU30678 Novel human secret  
 29 375 28.6 131 21 AAB58126 Lung cancer associ  
 30 318.5 24.3 260 22 ABE65383 Drosophila melanog  
 31 316.5 24.2 262 21 AAB29622 Cat flea HMT Cl in  
 32 303.5 23.2 124 22 AAM25393 Human protein sequ  
 33 268 20.5 259 21 AAG10612 Arabidopsis thalia  
 34 267.5 20.4 217 21 AAG10613 Arabidopsis thalia  
 35 234.5 17.9 213 21 AAG10583 Arabidopsis thalia  
 36 234.5 17.9 457 23 ABB91068 Herbicidally activ  
 37 222.5 17.0 213 23 ABB91604 Herbicidally activ  
 38 220.5 16.8 213 21 AAG07144 Arabidopsis thalia  
 39 214.5 16.4 144 21 AAB59087 Breast and ovarian  
 40 187.5 14.3 217 23 ABB93629 Herbicidally activ  
 41 176 13.4 52 22 ABC50370 Human liver peptid  
 42 176 13.4 52 22 ABB20939 Protein #2938 enco  
 43 176 13.4 52 22 AAM56327 Human brain expres  
 44 176 13.4 52 22 AAM56327 Human bone marrow  
 45 176 13.4 52 22 AAM56762

## ALIGNMENTS

RESULT 1  
 AAM39767  
 ID AAM39767 standard; Protein: 247 AA.  
 XX  
 AC AAM39767;  
 XX  
 DT 22-OCT-2001 (first entry)  
 XX  
 DE Human polypeptide SEQ ID NO 2912.  
 XX  
 KW Human; nototropic; immunosuppressant; cytostatic; gene therapy; cancer;  
 KW peripheral nervous system; neuropathy; central nervous system; CNS;  
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemoractic;  
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
 KW leukaemia.  
 XX  
 OS Homo sapiens.  
 XX  
 XX  
 XX  
 PF 26-DEC-2000; 2000MO-US34263.  
 XX  
 PR 21-JAN-2000; 2000US-0488725.  
 PR 25-APR-2000; 2000US-0552317.  
 PR 09-JUL-2000; 2000US-0598042.  
 PR 19-JUL-2000; 2000US-0620312.  
 PR 03-AUG-2000; 2000US-0653450.  
 PR 14-SEP-2000; 2000US-0662191.  
 PR 19-OCT-2000; 2000US-0693036.

PR 29-NOV-2000; 2000US-0727344.  
 XX  
 PA (HUSE) HKSBQ, INC.  
 XX  
 XX Tang Y, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
 P1 Wang Y, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;  
 P1 Zhao QA, Zhou P, Goodrich R, Drmanac RT;  
 XX  
 WPI: 2001-442253/47.  
 DR N-PSDB; AA:58923.  
 DR  
 PT Novel nucleic acids and polypeptides, useful for treating disorders  
 PT such as central nervous system injuries -  
 XX  
 PS Example 4; SEQ ID NO 2912: 10078bp; English.  
 XX  
 CC The invention relates to human nucleic acids (AA157798-AA161369) and  
 CC the encoded polypeptides (AAM36642-AA42213) with nototropic,  
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful  
 CC in gene therapy. A composition containing a polypeptide or polynucleotide  
 CC of the invention may be used to treat diseases of the peripheral nervous  
 CC system, such as peripheral nervous injuries, peripheral neuropathy and  
 CC localised neuropathies and central nervous system diseases, such as  
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
 CC utilisation of the activities such as: immune system suppression,  
 CC activation/inhibition activity, chemotactic/chemokinetic activity, haemostatic  
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
 CC assays for receptor activity, arthritis and inflammation, leukaemias and  
 CC C.N.S disorders.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification.  
 XX  
 SQ Sequence 247 AA:  
 Query Match 100.0%; Score 1310; PB 22; Length 247;  
 Best Local Similarity 100.0%; Pred. No. 5.8e-126;  
 Matches 247; Conservative 0; Mismatch 0; Indels 0; Gaps 0;  
 QY 1 MSGLRGTQVDPEIEFLVYKAGSDGSGNCPQRLFMILKGVKFNVTVDNTRKPEE 60  
 DB : MSGLRGTQVDPEIEFLVYKAGSDGSGNCPQRLFMILKGVKFNVTVDNTRKPEE 60  
 QY 61 LKOLAPGTPPPFLVYKAGSDGSGNCPQRLFMILKGVKFNVTVDNTRKPEE 120  
 DB 61 LKOLAPGTPPPFLVYKAGSDGSGNCPQRLFMILKGVKFNVTVDNTRKPEE 120  
 QY 121 SAYIKTKQKANKNFKSLKKEFKRLDDYINTPLLEIDPDSAEPPVSRRLFDGQDLT 180  
 DB 121 SAYIKTKQKANKNFKSLKKEFKRLDDYINTPLLEIDPDSAEPPVSRRLFDGQDLT 180  
 QY 181 LAQCSLLPKLNIIVKAAKVRDIPAEFGVNRVLYHNAYAREEFTHTCPDKEINTYA 240  
 DB 181 LAQCSLLPKLNIIVKAAKVRDIPAEFGVNRVLYHNAYAREEFTHTCPDKEINTYA 240  
 QY 241 NVAKQKS 247  
 DB 241 NVAKQKS 247

RESULT 2  
 AAM41553  
 ID AAM41553 standard; Protein: 254 AA.  
 XX  
 AC AAM41553;  
 XX  
 DT 22-OCT-2001 (first entry)  
 XX  
 DE Human polypeptide SEQ ID NO 6484.  
 XX  
 KW Human; nototropic; immunosuppressant; cytostatic; gene therapy; cancer;  
 KW peripheral nervous system; neuropathy; central nervous system; CNS;  
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
 KW leukaemia.